

Corrections and Additions to the Publication, Identification
and Geographical Distribution of the Mosquitoes
of North America, North of Mexico

Ronald A. Ward¹ and Richard F. Darsie, Jr.²

ABSTRACT. Corrections and additions are provided as a supplement to the publication, Identification and Geographical Distribution of the Mosquitoes of North America, North of Mexico.

INTRODUCTION

Following the publication of Darsie and Ward (1981), certain errors and corrections have been brought to our attention and are appended below in an Errata section. As the chapters, Bibliography of Mosquito Taxonomy and Geographical Distribution, and Addendum to Bibliography in Darsie and Ward (1981) surveyed the relevant literature through most of 1979, we are providing annotated references from 1979 to mid-1982. In addition, several pre-1979 publications are cited that were earlier omitted. Certain species merit comment and are noted along with new distribution records at the state (U.S.A.) and province (Canada) level.

We wish to thank Peter Belton, Alain Maire and Lewis T. Nielsen who have provided data for our use and Bruce Harrison for his advice on an earlier draft.

ERRATA

Page 7, line 19

For Interocular setae (IS), read Interocular setae (ISe)

Page 8, lines 39, 43, 48

For meskatepisternum, read mesokatepisternum

Page 9, line 39

For Fig. 15, read Fig. 38

¹Ronald A. Ward, Department of Entomology, Walter Reed Army Institute of Research, Washington, D. C. 20012

²Richard F. Darsie, Jr., Division of Parasitic Diseases, Chamblee 23, Center for Infectious Diseases, Centers for Disease Control, Atlanta, Georgia 30333.

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 1982		2. REPORT TYPE		3. DATES COVERED 00-00-1982 to 00-00-1982	
4. TITLE AND SUBTITLE Corrections and Additions to the Publication, Identification and Geographical Distribution of the Mosquitoes of North America, North of Mexico				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Walter Reed Army Institute of Research, Department of Entomology, Washington, DC, 20012				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT see report					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 11	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Page 9, line 41

For Fig. 221, read Fig. 222

Page 10, line 49

For the, read The

Page 14, In list of abbreviations for Plate 4, add PMe-pleural membrane

Page 27, Couplet 1, lines 1 and 2

For hindtarsomere, read hindtarsomeres

Page 30, Figs. 59, 61

For Hindtarsus, read Hindtarsus

Page 44, Fig. 140

For *candensis*, read *canadensis*

Page 51, line 2

For posterior, read anterior

Page 115, line 44

For Fig. 789, read Fig. 815

Page 115, line 45

For Fig. 815, read Fig. 784

Page 116, line 25

For Figs. 514, 516, read Figs. 514, 516, 855

Page 119, line 7

For mesurement, read measurement

Page 132, Couplet 11

Should read:

11 (10). Saddle completely encircling segment X (Fig. 538),
or if not, siphon aciculate (Fig. 824) *Culex*

Saddle not completely encircling segment X (Fig. 539);
siphon not aciculate (in part) *Aedes*

Page 133, Couplet 14, lines 2 and 3

For tergum on VII, read segment VII

Page 182, Figs. 790, 792

For 1-I-IV, read 1-IV

Page 199, Figs. 878, 880

For Ventral view, read Dorsal view

Page 202, Fig. 895

For *inornator*, read *inornata*

- Page 214, Couplet 8
For *johnstoni*, read *johnstonii*
- Page 215, Fig. 958
For abdomen *Ps.*, read abdomen - *Ps.*
- Page 220, Fig. 983
For thorax *Wy.*, read thorax - *Wy.*
- Pages 226 and 233, column 1
Heading should read Mosquito Species
- Page 241, line 8
For MAN (470), read MAN (70, as *Ae. triseriatus*)
- Page 258, line 5
For NE (164), read NE (373)
- Page 260, Plate 35, line 2
For NM 3/8K_!(, read (502)
- Page 260, Plate 35, line 3
For MQ, read M0
- Page 287, ref. 311
For *silvertris*, read *silvestris*
- Page 290, ref. 398
For Schyler, read Schuyler
- Page 297, line 12
For 57, 60, read 57-60
- Page 305, Fig. 670
For Pina, read Pima
- Page 312, line 46
For *mulrennai*, read *mulrennani*
- Page 313, line 4
For *s. spenceri*, read *s. spencerii*

COMMENTS ON CERTAIN SPECIES

Aedes (Aedes) hemiteus Dyar. Bickley (1980) studied the adult morphological characters of the North American members of the Cinereus Group (sensu Peus 1972) and found them too variable to discriminate *Ae. hemiteus* from *Ae. cinereus* Meigen, or other members of the group. However, in the absence of adequate North American specimens with associated immature skins, we feel it is not advisable to synonymize *Ae. hemiteus* with *Ae. cinereus*.

Aedes (Finlaya) togoi (Theobald). Belton (1980) presented conclusive evidence that *Ae. togoi* is now established south of Anacortes, Washington, in rock pools along the coastline. He indicated that *Ae. togoi* is probably a recent introduction from Asia (within the past 40 years) and may have been dispersed through the agency of ferry traffic among islands. Since this species is already included in Darsie and Ward (1981), no modifications to the keys are required.

Culex (Melanoconion) taeniopus Dyar and Knab. The new synonymy of *Cx. (Mel.) opisthopus* Komp with *taeniopus* by Sirivanakarn and Belkin (1980) will undoubtedly cause consternation among some North American mosquito workers. Through the proper examination of type-specimens and the application of the principle of priority, Sirivanakarn and Belkin (l.c.) have resolved a difficult problem of nomenclature.

Culex (Tinolestes) latisquama (Coquillett). The presence of this species in the U. S. is based on one male supposedly collected in 1906 from Estero, Lee county, Florida (Stone 1968). Since additional specimens have not been collected north of Honduras, Berlin and Belkin (1980) believed the Florida record is erroneous. They attribute this to an incorrect label on specimens collected for the "Mosquitoes of North and Central America and the West Indies" (Howard, Dyar and Knab 1915). As we do not wish to perpetuate the error, *Cx. latisquama* is removed from the list for the subject area. This reduces the list of species and subspecies known to occur in North America, north of Mexico, from 167 to 166.

Culiseta (Culiseta) annulata (Schrank). Faran and Bailey (1980) collected a single adult female *Cs. annulata* at Fort McHenry, Baltimore, Maryland, from the inner walls of an old munitions bunker. This female was collected in association with overwintering *Cx. pipiens* Linn. females and survived 20 days in the laboratory. Due to the proximity of Fort McHenry to Baltimore harbor, it is probable that this specimen or its ancestors were introduced into the area by a ship travelling from Europe. Since further specimens have not been reported, *Cs. annulata* is not yet an established faunal component.

Wyeomyia (Wyeomyia) smithii (Coquillett) and *Wy. (Wyo.) haynei* Dodge. Bradshaw and Lounibos (1977) examined the effects of latitude, altitude and longitude on photoperiodicity, morphology of larval anal papillae, stage of dormancy and response of F₁ hybrids of pitcher-plant mosquitoes of the genus *Wyeomyia* from eastern North America. They conclude that *Wy. smithii* is probably a polytypic species which includes *Wy. haynei* as a geographic subspecies. Their observation that *Wy. haynei* populations from the Gulf Coast possess four long anal papillae is of interest and indicates the need for a rigorous taxonomic analysis of extensive series of reared specimens of both species throughout the entire range. These should be complemented by a series of cross-breeding experiments from various critical populations. Until these studies have been accomplished, *haynei* and *smithii* should be retained as discrete species.

reads "a single polytypic species."
and

"... that there is but one species."

"... W. haynei is apparently a subspecies."

CHANGES TO STATE AND PROVINCE DISTRIBUTION RECORDS

The following new United States and Canada distribution records have come to our attention since Darsie and Ward (1981) was submitted to the printer. Changes in distribution such as county records are included in the Annotated References.

SPECIES	POLITICAL UNIT	REFERENCE
<i>Ae. atropalpus</i>	IN	Restifo and Lanzaro (1980)
<i>Ae. atropalpus</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. cinereus</i>	WV	Butler and Amrine (1980)
<i>Ae. decticus</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. diataeus</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. dorsalis</i>	NH	Burger (1981)
<i>Ae. euedes</i>	WY	Nielsen (1982)
<i>Ae. grossbecki</i>	MI	Cassani and Newson (1980)
<i>Ae. hendersoni</i>	FL	Zavortink and Belkin (1979)
<i>Ae. hexodontus</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. nevadensis</i>	BC	Belton and Belton (1981)
<i>Ae. pionips</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. sollicitans</i>	WV	Butler and Amrine (1980)
<i>Ae. sticticus</i>	NFLD	Nielsen and Mokry (1982b)
<i>Ae. togoi</i>	WA	Belton (1980)
<i>Cs. alaskaensis</i>	UT	Bickley (1979)
<i>Cs. melanura</i>	NFLD	Nielsen and Mokry (1982a)
<i>Or. alba</i>	WV	Heaps (1980)
<i>Ps. cyanescens</i>	IA	Ritchie and Rowley (1980)
<i>Ps. mathesoni</i>	MI	Cassani and Newson (1980)
<i>Ur. sapphirina</i>	CO	Maloney (1980)

Four species were deleted from the list of Nebraska species by Lunt and Rapp (1981) as they were unable to verify their presence within the state on the basis of valid collection records. These include: *Aedes fitchii* (Felt and Young), *Ae. implicatus* Vockeroth, *Culex quinquefasciatus* Say and *Culiseta melanura* (Coquillett).

ANNOTATED REFERENCES

- Adkins, D. A. 1979. A survey of mosquitoes in Cabell County, West Virginia. Mosq. News 39:267-270. (Eight new county records.)
- Belton, P. 1980. The first record of *Aedes togoi* (Theo.) in the United States - aboriginal or ferry passenger? Mosq. News 40:624-626. (New Washington State record.)
- Belton, P. and E. M. Belton. 1981. A revised list of the mosquitoes of British Columbia. J. Entomol. Soc. B. C. 78:55-64. (New country record for *Ae. nevadensis* and additional locality records for numerous species.)
- Berlin, O. G. W. and J. N. Belkin. 1980. Mosquito studies (Diptera, Culicidae) XXXVI. Subgenera *Aedinus*, *Tinolestes* and *Anoediopora* of *Culex*. Contrib. Am. Entomol. Soc. (Ann Arbor) 17(2):1-104.
- Bickley, W. E. 1979. Notes on the geographical distribution of three species of *Culiseta*. Mosq. News 39:392. [All records except *Cs. alaskaensis* - UT included in Darsie and Ward (1981).]
- _____. 1980. Notes on the status of *Aedes cinereus hemiteus* Dyar. Mosq. Syst. 12:367-370.
- _____. 1981 (1982). Notes on the geographical distribution of *Aedes canadensis mathesoni*. Mosq. Syst. 13:150-152.
- Bourassa, J. P. 1981. Position taxonomique du diptère *Aedes atropalpus* (Coquillett). Naturaliste Can. 108:185-190.
- Bradshaw, W. E. and L. P. Lounibos. 1977. Evolution of dormancy and its photoperiodic control in pitcher-plant mosquitoes. Evolution 31:546-567.
- Breeland, S. G. 1980. A bibliography to the literature of *Anopheles albimanus* (Diptera: Culicidae). Mosq. Syst. 12:50-150.
- _____. 1982. Bibliography and notes on Florida mosquitoes with limited distribution in the United States. Mosq. Syst. 14:53-72. (New county records for *De. cancer*.)
- Brogdon, W. G. 1981 (1982). Use of the siphonal index to separate *Culex pipiens* subspecies and hybrids. Mosq. Syst. 13:129-137.

- Brust, R. A. 1979. Occurrence of *Aedes hendersoni* in Manitoba. Mosq. News 39: 395-396. (Not a new provincial record.)
- Burger, J. F. 1981. New records of mosquitoes (Diptera: Culicidae) from New Hampshire. Entomol. News 92:49-50. (New state record of *Ae. dorsalis*.)
- Butler, L. and J. W. Amrine. 1980. New state and county records for mosquitoes in West Virginia. Mosq. News 40:347-350. (New state records for *Ae. cinereus* and *Ae. sollicitans*.)
- Candeletti, T. and F. H. Lesser. 1978 (1980). *Culex tarsalis* in New Jersey. Proc. N. J. Mosq. Control Assoc. 65:95-98.
- Cassani, J. R. and H. D. Newson. 1980. An annotated list of mosquitoes reported from Michigan. Mosq. News 40:356-367. [Includes new state records for *Ae. grossbecki* and *Ps. Mathesoni* (as *varipes*); repeats several older species records that require verification.]
- Covell, C. F., Jr. and A. J. Brownell. 1979. *Aedes atropalpus* in abandoned tires in Jefferson county, Kentucky. Mosq. News 39:142. (New county records.)
- Crans, W. J., F. Lesser and T. Candeletti. 1979. Recent distribution records of *Culex tarsalis* in New Jersey. Mosq. News 39:244-247.
- Darsie, R. F., Jr. and R. A. Ward. 1981. Identification and geographical distribution of the mosquitoes of North America, north of Mexico. Mosq. Syst. Suppl. 1:1-313.
- Dickson, S. L. 1980. The mosquitoes of southwest Missouri. Proc. Utah Mosq. Abat. Assoc. 32:40-42.
- Faran, M. E. 1980. Mosquito studies (Diptera, Culicidae) XXXIV. A revision of the Albimanus Section of the subgenus *Nyssorhynchus* of *Anopheles*. Contrib. Am. Entomol. Inst. (Ann Arbor) 15(7):1-215.
- Faran, M. E. and C. L. Bailey. 1980. Discovery of an overwintering adult female of *Culiseta annulata* in Baltimore. Mosq. News 40:284-287.
- Gordon, S. W. and E. D. Peterson. 1980. Occurrence of *Toxorhynchites rutilis septentrionalis* in tires in Ohio. Mosq. News 40:107-109. (New county records.)
- Goyette, D. and A. Maire. 1980. Les sentiers de caribous dans l'hémiarctique, un type séculaire de biotope à larves de moustiques (Culicidae). Can. Entomol. 112:1007-1012.
- Harbach, R. E. and K. L. Knight. 1981 (1982). Corrections and additions to *Taxonomists' glossary of mosquito anatomy*. Mosq. Syst. 13:201-217.

- Harrison, R. J., R. Loisellet and D. J. LePrince. 1980. Inventaire des moustiques (Diptera: Culicidae) du sud du Québec, 1973-1978. *Ann. Soc. Entomol. Quebec* 25:195-206.
- _____. 1981. Historique des listes de moustiques (Diptera: Culicidae) du Québec. *Ann. Soc. Entomol. Quebec* 26:3-8. (List of 51 species.)
- Heaps, J. W. 1980. Occurrence of *Orthopodomyia* in West Virginia. *Mosq. News* 40:452. (New record for *Or. alba*.)
- Howard, L. O., H. G. Dyar and F. Knab. 1915. The mosquitoes of North and Central America and the West Indies. Systematic description, part I. Carnegie Inst. Wash. Publ. No. 159, Vol. 3, 523 pp.
- Johnson, W. E., Jr. and L. Harrell. 1980. The occurrence of *Aedes trivittatus* in Alabama. *Mosq. News* 40:296-297. (Previous Alabama record questionable.)
- Keith, R. D. 1979. The occurrence of *Aedes grossbecki* in Texas. *Mosq. News* 39:797. [Species previously cited in Darsie and Ward (1981).]
- Kruger, R. M. and R. R. Pinger. 1981. A larval survey of the mosquitoes of Delaware county, Indiana. *Mosq. News* 41:484-489.
- Lang, J. R., D. D. Pinkovsky and R. J. McKenna. 1981. Mosquito vectors collected at CONUS USAF installations and mosquito-borne disease data. Final report for period 1970-1980. Report SAM-TR-81-36. USAF School of Aerospace Medicine, Brooks AFB, TX, 222 pp.
- Lunt, S. R. and W. F. Rapp, Jr. 1981. An annotated list of the mosquitoes of Nebraska. *Mosq. News* 41:701-706. (Four species deleted from state list as records could not be verified.)
- Maire, A. 1977. Identification des biotopes à larves de moustiques des tourbières de la Basse-Mauricie (Québec Méridional). *Naturaliste Can.* 104:429-440.
- _____. 1978. Colloque sur l'entomologie, les loisirs et la culture. La développement de l'urbanisme et des loisirs de plein air au Québec est-il compatible avec celui des insectes piqueurs? *Ann. Soc. Entomol. Quebec* 23:108-115.
- _____. 1980. Ecologie comparée des espèces de moustiques holarctiques (Diptera: Culicidae). *Can. J. Zool.* 58:1582-1600.
- Maire, A. and A. Aubin. 1980. Les moustiques du Québec (Diptera: Culicidae). Essai de synthèse écologique. *Mem. Soc. Entomol. Quebec*, No. 6, 107 pp.
- Maire, A., Y. Mailhot and A. Aubin. 1979. Caractérisation écologique des biotopes à larves de moustiques (Culicidae) du littoral subarctique de la Baie de James, Québec. *Can. Entomol.* 111:251-272.

- Maire, A., Y. Mailhot, C. Tessier and R. Savignac. 1980. Records of *Aedes mercurator* from eastern James Bay, Quebec. Mosq. News 40:444-445.
- Maire, A., L. Picard and A. Aubin. 1979. Présence d'*Aedes (Ochlerotatus) pullatus* (Coquillett) (Diptera: Culicidae) dans les-Chic Chocs, Parc de la Gaspésie, Québec. Implications biogéographiques de cette extension d'aire. Can. J. Zool. 57:1576-1583. (New southernmost record for *Ae. pullatus* from eastern North America.)
- Maire, A., C. Tessier and L. Picard. 1978. Analyse écologique des populations larvaires de moustiques (Diptera: Culicidae) des zones riveraines du fleuve (Saint-Laurent), Québec. Naturaliste Can. 105:225-241.
- Maloney, F. A. 1980. New record for *Uranotaenia sapphirina* in Colorado. Mosq. News 40:451.
- Means, R. G. 1979. Mosquitoes of New York. Part I. The genus *Aedes* Meigen with identification keys to genera of Culicidae. Bull. No. 430a, New York State Mus., 221 pp. (Includes distribution maps.)
- Mogi, M. and J. Mokry. 1980. Distribution of *Wyeomyia smithii* (Diptera, Culicidae) eggs in pitcher plants in Newfoundland, Canada. Trop. Med. (Nagasaki) 22:1-12.
- Munstermann, L. W. 1980. Distinguishing geographic strains of the *Aedes atropalpus* group (Diptera: Culicidae) by analysis of enzyme variation. Ann. Entomol. Soc. Am. 73:699-704.
- Nayar, J. K. 1982. Bionomics and physiology of *Culex nigripalpus* (Diptera: Culicidae) of Florida: An important vector of diseases. Fla. Agric. Exp. Stn. Tech. Bull. 827:1-73.
- Newson, H. D. 1978. Culicidae, pp. 311-329. In R. W. Merritt and K. W. Cummins, eds. An introduction to the aquatic insects of North America. Kendall/Hunt Publishing Co., Dubuque, IA. (Keys to adults, larvae and pupae.)
- Nielsen, L. T. 1982. *Aedes euedes* H. D. & K. - A report of a new record from Wyoming with notes on the species. Mosq. Syst. 14:133-134.
- Nielsen, L. T. and J. E. Mokry. 1982a. *Culiseta melanura* in Newfoundland. Mosq. News 42:274-275.
- _____. 1982b. The mosquitoes of the island of Newfoundland - A report of new records and notes on the species. Mosq. Syst. 14:34-40. (New records for six *Aedes* species.)
- Pinkovsky, D. D. and R. J. McKenna. 1980. Distribution of mosquitoes in the continental United States. Final report for period 1943-1979. Report SAM-TR-80-45. USAF School of Aerospace Medicine, Brooks AFB, TX, 54 pp.

- Restifo, R. A. and G. C. Lanzaro. 1980. The occurrence of *Aedes atropalpus* (Coquillett) breeding in tires in Ohio and Indiana. Mosq. News 40:292-294. (New Indiana state record.)
- Ritchie, S. A. and W. A. Rowley. 1980. A new distributional record for *Psorophora cyanescens* in Iowa. Mosq. News 40:118. (New state record.)
- Roberts, D. R. and J. E. Scanlon. 1979. An evaluation of morphological characters for separating females of *Aedes (Ochlerotatus) atlanticus* Dyar and Knab and *Aedes (Ochlerotatus) tormentor* Dyar and Knab (Diptera: Culicidae). Mosq. Syst. 11:203-208.
- Savignac, R. and A. Maire. 1981. A simple character for recognizing second and third instar larvae of five Canadian mosquito genera (Diptera: Culicidae). Can. Entomol. 113:13-20.
- Shroyer, D. A., R. F. Beach, L. Munstermann, J. Peloquin, J. L. Peterson, R. P. Smith and D. B. Taylor. 1976 (1977). Mosquito diversity in St. Joseph County, Indiana (Diptera: Culicidae). Proc. Ind. Acad. Sci. 86: 238-241.
- Sirivanakarn, S. and J. N. Belkin. 1980. The identity of *Culex (Melanoconion) taeniopus* Dyar and Knab and related species with notes on the synonymy and description of a new species (Diptera: Culicidae). Mosq. Syst. 12:7-24.
- Steffan, W. A. 1980 (1981). The type-specimens of *Toxorhynchites* (Diptera: Culicidae) at the National Museum of Natural History. Mosq. Syst. 12: 379-385.
- Steffan, W. A. and N. L. Evenhuis. 1980. Description of the pupa of *Toxorhynchites (Lynchiella) septentrionalis* (Diptera: Culicidae). Mosq. Syst. 12:175-178.
- Stone, A. 1981. Culicidae, pp. 341-350. In J. F. McAlpine et al., Manual of nearctic Diptera. Vol. 1. Research Branch, Agriculture Canada, Ottawa. Monograph 27, 674 pp. (Contains family characterization; generic keys to adults and larvae.)
- Tessier, C., A. Maire and A. Aubin. 1981. Productivité en larves de moustiques (Diptera: Culicidae) des milieux aquatiques peu profonds d'un secteur du Moyen-Nord Québécois (LG-1, Territoire de la Baie de James). Can. J. Zool. 59:738-749.
- Trimble, R. M. and W. G. Wellington. 1979. Colonization of North American *Aedes togoi*. Mosq. News 39:18-20.
- White, D. J. and C. P. White. 1980. *Aedes atropalpus* breeding in artificial containers in Suffolk county, New York. Mosq. News 40:106-107. (New county records.)

- _____. 1981. The occurrence and relevance of arthropods of medical and veterinary importance captured during a survey on Plum Island, New York. J. N. Y. Entomol. Soc. 89:2-15.
- Zavortink, T. J. and J. N. Belkin. 1979. Occurrence of *Aedes hendersoni* in Florida (Diptera, Culicidae). Mosq. News 39:673. (New state record.)
- Zimmerman, R. H. and E. C. Turner, Jr. 1982. Mosquito distribution and abundance in an inland salt marsh, Saltville, Virginia. Mosq. News 42: 105-109. (New inland record for *Ae. sollicitans*.)